0070736

# 100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

*Groundwater / Source Operable Units / Facility Demolition*

February 9, 2006

## TRANSMITTAL / APPROVAL

APPROVAL: _____ Date 6/8/06

**Kevin D. Bazzell, RL** (A3-04)
River Corridor Project Manager

APPROVAL: _____ for Date 06/08/06

**Briant Charbonneau, RL** (A6-33)
Groundwater Project Manager

APPROVAL: _____ Date 6/08/06

**John Price / Rick Bond, Ecology** (H0-57)
Environmental Restoration Manager

APPROVAL: Larry Gadbois Date 7-13-2006

**Larry Gadbois, EPA** (B1-46)
100 Aggregate Area Unit Manager

APPROVAL: Alica Boyd Date 06-08-06

**Alica Boyd, EPA** (B1-46)
300 Aggregate Area Unit Manager

# 100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

*Groundwater / Source Operable Units / Facility Demolition*

128831

February 9, 2006

## DISTRIBUTION

**DOE-RL**

| | |
|---|---|
| Kevin Bazzell | A3-04 |
| Briant Charboneau | A6-33 |
| Clifford Clark | A3-04 |
| Rudolph Guercia | A3-04 |
| Roger Pressentin | A3-04 |
| John Sands | A3-04 |
| Douglas (Chris) Smith | A6-38 |
| K (Mike) Thompson | A6-38 |
| Arlene Tortoso | A6-38 |
| Kent Westover | A3-04 |
| Jamie Zeisloft | A3-04 |

**ECOLOGY**

| | |
|---|---|
| Jeff Ayres | H0-57 |
| Rick Bond | H0-57 |
| Dib Goswami | H0-57 |
| Alisa Huckaby | H0-57 |
| John Price | H0-57 |
| Beth Rochette | H0-57 |
| Noel Smith-Jackson | H0-57 |
| Jean Vanni | H0-57 |

**EPA**

| | |
|---|---|
| Alica Boyd | B1-46 |
| Dennis Faulk | B1-46 |
| Larry Gadbois | B1-46 |

**FH**

| | |
|---|---|
| Jane Borghese | E6-35 |
| Ronald Jackson | E6-35 |
| Robert Piippo | H8-12 |
| John Winterhalder | E6-35 |

**PNNL**

| | |
|---|---|
| John Fruchter | K6-96 |
| Mary Hartman | K6-96 |
| Ron Jackson | E6-35 |
| Stuart Luttrell | K6-96 |
| Thomas Naymik | K6-96 |
| Robert Peterson | K6-75 |

**WCH**

| | |
|---|---|
| Kimberley Anselm | H9-02 |
| Tina Blakley | X0-17 |
| Mark A. Buckmaster | X9-07 |
| Dru Butler | H0-19 |
| Stacy Callison | X9-07 |
| Richard Carlson | X0-17 |
| Steven Clark | H9-01 |
| Kelly Cook | X0-17 |
| Franklin Corpus | L6-06 |
| John Darby | L6-06 |
| Steven Dieterle | L1-04 |
| Lorna Dittmer | H9-02 |
| Jack Donnelly | X0-17 |
| Jonathan Fancher | X5-57 |
| Ken Gano | H9-03 |
| Jim Golden | L1-04 |
| Charles Hedel | H0-23 |
| Larry Hulstrom | H0-23 |
| Kim Koegler | L1-07 |
| Roger Landon | H9-03 |
| Deena La Rue | H0-20 |
| Jeffrey Lerch | H0-23 |
| John Ludowise | X0-17 |
| Larry Miller (Rex) | X3-40 |
| Jennifer Ollero | H0-19 |
| Roger Ovink | H9-01 |
| Scott Parnell | X5-57 |
| Mike Schwab | H0-23 |
| Annie Smet | X0-17 |
| Bradley Smith | L1-01 |
| Dean Strom | X3-40 |
| Jill Thomson | H0-23 |
| Steve Weiss | H0-23 |
| Donna Yasek | L1-07 |

**ADMIN RECORD**

| | |
|---|---|
| Debbie Isom - (2 copies) | H6-08 |

Please forward distribution list changes to *Sharon Black* WCH (H0-19)

**The attached February 9, 2006 UMM Meeting Minutes are comprised of the following:**

| | | |
|---|---|---|
| *Attachment 1* | - | February Agenda and Open Action Items |
| *Attachment 2* | - | Attendance Sheet |
| *Attachment 3* | - | 2/9/06 Unit Manager Meeting Minutes and New Action Items |
| *Attachment 4* | - | Groundwater Operable Unit Status 2/9/06 |
| *Attachment 5* | - | Dean Strom -100BC Burial Grounds status and color coded map |
| *Attachment 6* | - | 300 Area D & D Status 2/9/06 |
| *Attachment 7* | - | Deferring Building Foundation Removal of the 314 Engineering Development Laboratory and 314 Stress Rupture Test Facility to the Remediation Project |
| *Attachment 8* | - | Engineering Design and Engineering Closure Summary for February Unit Manager Meeting |
| *Attachment 9* | - | 100 Area Groundwater Summary by Bob Peterson |

Prepared by: Sharon Black 2/8/06

**Sharon Black** (H0-19) Date

Admin, WCH Regulatory Integration and Outreach

Concurrence by: _____ _____

**Dru Butler** (H0-19) Date

Director, WCH Regulatory Integration and Outreach

# 100 AREA / 300 AREA UNIT MANAGERS' MEETING

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

## ATTACHMENT 1

February Agenda and Open Action Items

# 100 AREA / 300 AREA UNIT MANAGER MEETING AGENDA

*Groundwater / Remedial Action Unit / Source Operable Units*

**February 9, 2006**

Washington Closure Hanford (WCH), Hanford Square IV, Room 454 A&B

**GROUNDWATER**

1:00 to 2:00 — ***100 Area***

- Open Action Items
- 100-NR-2
- 100-KR-4
- 100-HR-3
- 100-BC-5
- 100-FR-3

2:00 to 2:15 — ***300 Area***

- Open Action Items
- Project Specific Items

**FIELD REMEDIATION**

2:15 to 2:45 — ***100 Area***

- Open Action Items
- 100 Area Common
  - Engineering Design
  - Engineering Closure
- 100-B/C
- 100-K and 118-K-1
- 100-D
- 100-F/100-IU-2/6
- 100-N

2:45 TO 3:15 — ***300 Area***

- Open Action Items
- 300 Area
  - Engineering Design
  - Engineering Closure
- 618-10 and 618-11 update

**D4 DECOMMISSIONING**

3:15 to 3:30 — ***100 Area***

- Open Action Items
- 100 D4

3:30 to 3:45 — ***300 Area***

- Open Action Items
- 300 D4

3:45 to 4:15 — **END STATES & FINAL CLOSURE**

- Open Action Items
- 100 B/C Pilot Risk Assessment
- 100/300 Area Risk Assessment
- Columbia River Component
- Integrated Work Plan
- D Area Orphan Sites

4:15 to 4:30 — **SPECIAL TOPICS**

- MP-14 approval status

**NEXT MEETING:** March 9, 2006 WCH, Hanford Square IV, Room 454, A & B

ACTION ITEMS from 1/12/06 Meeting:

- **Jack Donnelly (WCH):** Prepare an NPL Agreement Form requesting a time extension for the staging piles at 100-B/C

- **Jack Donnelly (WCH) and Steve Clark (WCH):** are to provide the basis for 300 Area cleanup levels for inclusion into the Remedial Design/Remedial Action (RD/RA) plan. Presently there is no explanation for the numbers as these were removed from the Remedial Design Report (RDR)as requested by Mike Goldstein (EPA). Dennis Faulk (EPA) stated that 100 Area numbers may not exactly match up with 300 Area numbers, but that the 300 Area should provide calculations.

- **Jennifer Ollero (WCH):** Identify solution for disconnect between Brown Bag meeting and the monthly UMMs regarding action items and issues.

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 2**

Attendance Sheet

*Attachment 2*

# 100 AREA/ 300 AREA UNIT MANAGER MEETING

*Groundwater / Remedial Action Unit / Source Operable Units*

## ATTENDANCE RECORD

February 9, 2006

| Name | Org | O.U. Role | Phone | Signature |
|---|---|---|---|---|
| ANSELM, KIMBERLY A. | WCH | 100 | 372-9363 | |
| AYRES, JEFF | ECY | 100 / 300 Tech support | 372-7881 | |
| BAZZELL, KEVIN D. | D0E-RL | 100 | 373-0463 | |
| BOND, RICK | ECY/DOE | 300 | 372-7885 | |
| BORGHESE, JANE V | FH | 100 / 300 | 373-3804 | |
| BOYD, ALICIA | EPA | 300 | 376-4919 | Alicia Boyd |
| BUCKMASTER, MARK | WCH | 100 Field Remediation Closure | 521-2089 | |
| BUTLER, DRU | WCH | 100/300 Regulatory Integration | 372-9956 | |
| CALLISON, STACY W. | WCH | 100 / 300 | 521-6515 | |
| CARLSON, RICHARD A. | WCH | 100 / 300 | 373-1440 | Richard Carlson |
| CHARBONEAU, BRIANT | DOE-RL | 100 / 300 | 373-6137 | |
| CLARK, CLIFFORD E (CLIFF) | DOE-RL | 300 Regulatory Support | 376-9333 | |
| CLARK, STEVEN W. | WCH | 100 / 300 | 372-9531 | Steven W Clark |
| COOK, KELLY E. | WCH | 100 / 300 | 373-5275 | |
| CORPUS, FRANKLIN M. | WCH | 300 | 372-9979 | |
| DARBY, JOHN W. | WCH | 300 Area Task Lead | 373-3008 | |
| DIETERLE, STEVEN | WCH | 300 | 372-9503 | |
| DITTMER, LORNA M. | WCH | 100 /300 | 372-9664 | Lorna M Dittmer |
| DONNELLY, JACK W. | WCH | 100 /300 | 373-9299 | |
| FANCHER, JONATHAN (JON) | WCH | 100 | 373-9556 | |
| FAULK, DENNIS | EPA | 100 | 376-8631 | |
| FRUCHTER, JONATHAN | PNNL | 100 / 300 | 376-3937 | |
| GADBOIS, LARRY | EPA | 100 | 376-9884 | Larry |
| GANO, KENNETH | WCH | 100 | 372-9295 | |
| GOLDEN, JAMES W. | WCH | 100 / 300 | 521-0877 | |
| GOSWAMI, DIB | ECOLOGY | 100 Groundwater | 372-7902 | |
| GUERCIA, RUDOLPH (RUDY) | DOE-RL | 300 D & D | 376-5494 | |
| HARTMAN, MARY | PNNL | 100 Groundwater | 373-0028 | |
| HEDEL, CHARLES W. | WCH | 100 / 300 | 372-2699 | |
| HUCKABY, ALISA D. | ECY | 100 Ecology | 372-7909 | |
| HULSTROM, LARRY | WCH | 300 | 372-9291 | |
| JACKSON, RONALD L. | FH | 100 Goundwater | 373-3599 | Ron Jackson |
| KOEGLER, KIM J. | WCH | 300 | 373-4736 | |
| LANDON, ROGER J. | WCH | 100 / 300 | 372-9209 | |
| LA RUE, DEENA N. | WCH | 100 / 300 Report change control | 375-9431 | |
| LERCH, JEFFREY A. | WCH | 100 / 300 ESFC | 372-9206 | |

# 100 AREA/ 300 AREA UNIT MANAGER MEETING

*Groundwater / Remedial Action Unit / Source Operable Units*

## ATTENDANCE RECORD

February 9, 2006

| Name | Org | O.U. Role | Phone | Signature |
|---|---|---|---|---|
| LUDOWISE, JOHN D. | WCH | 100 / 300 | 373-1045 | |
| LUTTRELL, STUART P. | PNNL | 100 Groundwater | 376-6023 | |
| MILLER, LARRY (REX) | WCH | 100 | 373-5876 | |
| NAYMIK, THOMAS G | PNNL | 300 Groundwater | 376-0916 | |
| OLLERO, JENNIFER F | WCH | 100 /300 Regulatory Integration | 372-9620 | |
| OVINK, ROGER W. | WCH | 100 / 300 S & D M | 375-9426 | |
| PARNELL, SCOTT E. | WCH | 300 Field Remediation | 373-9975 | |
| PETERSEN, SCOTT W. | DOE-RL | 100 | 372-9126 | |
| PETERSON, ROBERT E. | PNNL | 100 / 300 Groundwater | 373-9020 | |
| PIIPPO, ROBERT E. | FH | 300 | 373-3285 | |
| PRESSENTIN, ROGER A. | DOE-RL | 300 | 376-1291 | |
| PRICE, JOHN P. | ECY/DOE | 100 / 300 | 372-7921 | |
| ROCHETTE, BETH | ECY | 300 Tech support | 372-7922 | |
| SANDS, JOHN P. | DOE-RL | 100 | 372-2282 | |
| SCHWAB, MICHAEL R. | WCH | 100 | 372-9407 | |
| SMET, ANN K. (ANNIE) | WCH | 100 / 300 | 373-9683 | |
| SMITH, BRADLEY A. | WCH | 300 324 / 327 D4 | 373-2723 | |
| SMITH, DOUGLAS (CHRIS) | DOE-RL | 100 / 300 | 372-1544 | |
| SMITH-JACKSON, NOEL | ECY | 100 / 300 | 372-7926 | |
| STROM, DEAN | WCH | 100 B/C | 373-5519 | |
| THOMPSON, K. (MIKE) | DOE-RL | 100 / 300 | 373-0750 | |
| THOMSON, JILL E. | WCH | 100 / 300 | 372-9200 | |
| TORTOSO, ARLENE C. | DOE-RL | 100 | 373-9631 | |
| VANNI, JEAN | ECY | 100 Lead Regulatory Permits | 372-7930 | |
| WEISS, STEPHEN G. | WCH | 100/300 Lead Tech Risk Assess | 372-9495 | |
| WESTOVER, KENT | DOE-RL | 100 | 376-3967 | |
| WINTERHALDER, JOHN A. | FH | 100 | 372-8144 | |
| YASEK, DONNA M. | WCH | 100 / 300 D & D | 372-9978 | |
| ZEISLOFT, JAMIE | DOE-RL | 100 | 372-0188 | |
| Lobos, Rod | EPA | 100-F | | |
| Shea, Jacqueline | ECY | Groundwater/Soil 100-D/H 200 | 372-7927 | |
| Sobczyk, Stan | NPT ERWM | | (208) 843-7375 | |
| Lilligren, Sandra | NPTERWM | | 208-843-7375 | |
| | | | | |
| | | | | |
| | | | | |

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 3**

Meeting Minutes and New Action Items

# 100 AREA / 300 AREAS UNIT MANAGERS' MEETING MINUTES

*Groundwater / Source Operable Units / Facility Demolition*

**FEBRUARY 9, 2006**

## ADMINISTRATIVE

- ***Next Unit Manager Meeting (UMM)***

  The next UMM meeting will be held on March 9, 2006 at Washington Closure Hanford (WCH), Hanford Square IV, Room 454.

- ***Tribal Attendance***

  Two members of the Nez Perce tribe, Sandra Lilligren and Stan Sobczyk, attended the meeting at the invitation of Dennis Faulk U.S. Environmental Protection Agency (EPA). Tri-Parties need to establish provisions for conducting executive sessions.

## GROUNDWATER

- ***100 Area***

  - ***Review of Open Action Items***: none

  - ***100-NR-2 Groundwater Operating Unit (OU)*** -- Status provided in ***Attachment 4***.

    Jane Borghese, Fluor Hanford (FH) reported that the Tri-Parties will sign the change package for 100-NR-2 next week. John Price (Ecology) clarified that the change order allows Department of Energy, Richland (DOE-RL) to place 100-NR-2 into "cold standby" which means that the pump and treat will be turned off, but can be turned back on. Additionally, EPA clarified that a Record of Decision (ROD) Amendment is not required to turn the pump and treat system off. Jean Vanni questioned the need for a modification of the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit.

    Ecology needs to meet time frame for submissions to the Ecological Impact Assessment plan and comments to the Apatite Treatability test plan.

    Jane Borghese (EPA) set up meeting to review well locations with Rich Carlson (WCH).

  - ***100-KR-4 Groundwater OU*** -- Status provided in ***Attachment 4***.

    Calcium Polysulfide test has proven a good treatment for the chromium plume. Larry Gadbois (RL) commented that the extraction of chromium worked well but there are still operational problems.

Results from the polysulfide test are to be incorporated into the 5-Year ROD Review.

***100-KW Groundwater*** -- Status provided in ***Attachment 4***.

Discussed the need to increase the capacity of this system. Also discussed the need for a ROD Amendment for the pump and treat system.

- ***100-HR-3Groundwater OU*** -- Status provided in ***Attachment 4***.

  Larry Gadbois (EPA) reported monitoring well converted to an injection well. Will address the remedial design report (RDR) requirement to shut off well when levels reach below 20 parts per billion (ppb).

  Rich Carlson (WCH) stated that the WCH excavation at 126-D-1 is expected to be completed before the wells near that site would be drilled and that the drill rigs for the wells are outside of the remediation radius. Drilling of monitoring wells is expected to begin in July. Monitoring wells could be changed to extraction wells if they locate in a concentration portion of the chromium plume.

  Dib Goswami (Ecology) noted a need to schedule a briefing on new technology of calcium polysulfide when Mike Thomas (DOE) returns from Washington, D.C.

- ***K East and K West Basins*** -- Status provided in ***Attachment 9***.

  Need to discuss replacement monitoring technologies. Need to develop strategies for monitoring and replacement wells during demolition, as well as identification of long term monitoring needs. Chrome plume in K-West needs to be factored in.

- ***100-BC-5 Groundwater OU*** -- Status provided in ***Attachment 9***.

  Dennis Faulk (EPA) stated that WCH needs to integrate their planned approach to remediate the 100-C-7 waste site with the ground water project. The concern is understanding what remains in the vadose zone after remediation and ensuring that it does not affect groundwater in the future.. Dennis Faulk wants to see an integrated plan.

- ***100-FR-3 Groundwater OU*** -- Status provided in ***Attachment 9***.

- ***300 Area*** -- Status provided in ***Attachment 9***.

- ***River Corridor Shoreline*** -- Status provided in ***Attachment 9***.

- ***300 Area Limited Field Investigation***

The contract for sonic drilling is in place. Alicia Boyd (EPA) would like to meet with DOE and FH to get more information on the polysulfide. If the limited field investigation

(LFI) is approved, then the test plans will be prepared and approved prior to conducting work.

- ***Miscellaneous***

  Kent Westover (RL) discussed the outstanding three Treatment, Storage and Disposal (TSD) closures for 1325-N, 1324-N, and 1324-NA awaiting Ecology approval. John Price (Ecology) stated that in May 2005 Ecology made a presentation on the new holistic approach for groundwater, and that to date he has not received feedback. This is now an issue in the draft sitewide RCRA permit. The Tri-Parties need to reach agreement on the groundwater plan.

FIELD REMEDIATION

- ***Review of Open action items***

  - ***Action*** Jack Donnelly (WCH) is to prepare a National Priorities List (NPL) agreement form requesting a time extension for the staging piles at 100-B/C
    ***Status*** Item remains open. Jack Donnelly is still preparing NPL agreement form. Document due by 3/7.

  - ***Action*** Jack Donnelly (WCH) and Steve Clark (WCH) are to provide the basis for 300 Area cleanup levels for inclusion into the Remedial Design/Remedial Action (RD/RA) plan. Presently there is no explanation for the numbers as these were removed from the Remedial Design Report (RDR) as requested by Mike Goldstein (EPA).
    ***Status*** Closed. Email sent to Alicia Boyd, (EPA).

  - ***Action*** Jennifer Ollero (WCH) is to identify a solution for disconnect between Brown Bag meeting and the monthly UMMs regarding action items and issues.
    ***Status*** Closed. Jennifer Ollero (WCH) stated that issues that have not been addressed at the staff level will not be discussed at Brown Bag.

- ***100 Area***

  - ***100 Area - Engineering Design*** -- Status provided in ***Attachment 8***.

    100B/C Spent nuclear fuel (SNF) remains staged at B/C. WCH concerned about potential impact to work at 100-B/C as FH has indicated that they cannot take the SNF because the waste does not meet their Authorization Basis (AB) documentation. Need to work documentation issues for shipping. EPA and RL do not feel that this is an issue and should not be holding up work. Chris Smith (RL) and Larry Gadbois (EPA) to investigate why this is an issue and why shipping is being held up as fuel should be same as other fuel characterizations on site.
    100-D WCH has been integrating with the Groundwater Project.
    116-C-3 EPA signed and approved the 116-C-3 Chemical Tanks Treatment Plan and sent via plant mail.

  - ***100 Area - Engineering Closure*** -- Status provided in ***Attachment 8***.

100-H The 100-H work instructions are being sent to RL and Ecology for review, but confirmatory sampling is not currently scheduled for FY06. The sampling could be included in fiscal year 2006 (FY06) scope as funds become available. Pipeline matrix logic utilized by EPA is being reviewed by Ecology.

- ***100-B/C*** Dean Strom (WCH) reported -- Status provided in ***Attachment 5***.

118-B-1 The Richland Bomb squad is unable to detonate the compressed gas cylinders. The scope of this activity is too large for their resources. Dennis Faulk (EPA) to provide name of company to assist with this. EPA also suggested that the compressed gas cylinders could be consolidated and stored until the end of the remediation. Currently using laser-assisted ranging and data system (LARADS) to identify potential plume areas to remove.
118-C-1 Currently discovering more suspect spent nuclear fuel.
128-B-3 Plan on performing split sampling then revegetation in two phases.
126B-3 Stripping of the east staging pile area is complete. A French drain was discovered. This will be sampled for the following analyte list: semi volatile organic analyses (SVOA), total petroleum hydrocarbon (TPH), inductively coupled plasma (ICP) metals, mercury (Hg), Cr+6, polychlorinated biphenyls (PCBs), Pesticides, Gamma Energy Analysis (GEA), Gross Alpha, Gross Beta, and volatile organic analysis (VOA), if detected during organic vapor monitoring (OVM). This will be included within the closeout documentation for this site.

- ***Remaining Sites, Pipelines and Sewers (RPAS)*** -- Status provided in ***Attachment 5***.

100-C-7 Monolith The project excavated over 300 bank cubic meters (BCM) to determine the extent of a chromium plume on the sidewall of the excavation. The magnitude of the plume far exceeds the scope of the current project. This work will be included within the new scope of work for the 100-C-78 site.

- ***100-K and 118-K-1***

11-K-2 There are about 2 weeks of backfill to go one the Mile Long Trench .
118-K-1 Burial Ground Working on operational readiness issues.

- ***100-D Area Burial Grounds and Remaining Sites Remediation***

Procurement bids are due in April. Jon Fancher (WCH) is the new field remediation lead for this project.

- ***100-F***

118-F-5 Continued loadout .
118-F-6 Completed exploratory excavation, found sheep carcass remains and manure and will need additional characterization for removal. Activities are in preparation to begin remediation.
Remaining Sites Continued closeout sampling.
120-F-1 Glass dump containing fluorescent lights required beryllium characterization. No beryllium discovered.
118-F-3 Initiated associated excavation and sorting activities.

- ***100-IU26***
  Remediation activities will be initiated in October 2006.

- ***100N***

  116-N-1 A backfill subcontract has been awarded. Processing Backfill concurrence calculations. Two weeks till data. 40 feet to 50 feet approved for staging area.

- ***300 Area***

  - ***Open action items***
    None

  - ***Engineering Design and Closure*** -- Status provided in ***Attachment 8.***

  - ***618-2, 618-7, 618-13, 618-10 and 618-11 Update***

    West Site Package 618-7 and 618-13 design package being prepared. Holding a workshop on alternatives.
    618-2 Remediation ongoing on the west side of the stock pile; load out from the staging area along with work from the trenches.
    Independent review team to do conceptual model/alternatives and then meet with Alicia Boyd (EPA).
    618-10 and 618-11 Design solution is ongoing with an independent review team. There are 2200 radiological survey records. Need to walk through what WCH has and meet with Alicia Boyd (EPA) in about 2 weeks.

D4 DECOMMISSIONING

- ***100 Area***

  Load out continuing at 1500 Kaiser buildings
  K Area EE/CA drafted. Meeting scheduled with Larry Gadbois (EPA) to discuss changes
  105-N and 109-N Removal Action Work Plan completed.

- ***300 Area*** -- Status provided in ***Attachment 6***.

  - Donna Yasek (WCH) reported that the project is currently working with heavy equipment. It is requested that individuals traveling to this area please contact ***Field Superintendent, Earl Prichard*** in advance at ***531-0615.***
  - Donna Yasek reported that Engineering Evaluation/ Cost Analysis (EE/CA) #2 should go to Alicia Boyd next week and that EE/CA #3 now being drafted.
  - Deferral approval for 314 submitted for minutes -- See ***Attachment 7***.

END STATES AND FINAL CLOSURE

- ***Open actions***-none

- ***100 B/C Pilot Risk Assessment***

Draft B document submitted to DOE with a tech memo.

- ***100/300 Area Risk Assessment***

  300 Area waiting for SAP; Larry Gadbois (EPA) will approved draft and sign tomorrow

- ***Columbia River Component***

  John Price (Ecology) and Larry Gadbois (DOE) have a concern that DOE does not have a contractual instrument mechanism for the River Corridor

  Multi incremental sampling- Rich Carlson (WCH) says needs evaluation by mid- March on boundary

- ***Integrated Work Plan***

  Work plan is currently being developed. WCH internal review is scheduled for mid-March.

- ***100-D Area Orphan Sites Evaluation***

  The historical review portion of the 100-D Area evaluation continues. Lorna Dittmer (WCH )and Ron Jackson (FH) are sharing information on potential sources for boreholes that are part of the groundwater program workscope.

SPECIAL TOPICS

- ***MP-14 approval status***

  John Price (Ecology) is reviewing MP-14 vs both RCRA /Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

NEW ACTION ITEMS

- ***John Price*** (Ecology) requested comments on "aggressive" move forward in remediation in D Area for the 5 year ROD review.

- ***Jack Donnelly (WCH) and Steve Clark (WCH)*** are to provide the basis for 300 Area cleanup levels for inclusion into the Remedial Design/Remedial Action (RD/RA) plan. Presently there is no explanation for the numbers as these were removed from the Remedial Design Report (RDR) as requested by Mike Goldstein (EPA).

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 4**

Groundwater Operable Unit Status 2/9/06

*Attachment 4*

100 UMM
Groundwater Operable Unit Status
February 9, 2006

## 100-NR-2 Groundwater OU - Russ Fabre

- Remediation Treatment Status
  - The pump and treat system operated at ~60 gpm.
  - Average Sr-90 removal efficiency was > 90%for the period.
  - TPA change request completed review cycle and is awaiting signature.
  - NR-2 "cold standby" planning ongoing.

- Ecological Impact Assessment
  - Comments on the review draft submitted to Ecology on October 31 were received. Work is proceeding on disposition of Ecology's comments.
  - Preliminary plans for a follow-up workshop ongoing.

- Apatite Treatability Testing Status
  - The treatability test plan for installation of pilot injection test and a 300 ft barrier during 2006 was completed and submitted to Ecology, comment resolution continuing.
  - Two of 11 planned wells completed.
  - Testing of the Eurotip drilling tool for potential use at 100-N was completed. Results were favorable for installing low cost, small-diameter (1-inch ID) wells that may be useful for performance monitoring purposes Eight (8) small diameter wells were completed using this tool. These wells will be used for monitoring the initial test injections.

## 100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period of January 2, January 29, 2006:
    - Pump-and-treat system operated normally.
    - Total average flow through the system was approximately 291 gpm.
    - Average influent hexavalent chromium concentration was 0.052 mg/L.

- Calcium Polysulfide Treatability Test Status
  - Hexavalent chromium continues to remain low (e.g. below the RAOs of 0.020 mg/L) at the 100-KR-4 treatability test site.
  - The draft report is currently being reviewed by RL. Report for agency review due on March 1, 2005 or sooner.

- KW Groundwater Remediation
  - Planning is underway to address the chromium plume in the KW Reactor Area using an IX treatment system. The baseline calls for operation of the treatment system by July 2006.
  - Four wells are planned to support the KW pump and treat system. These well are identified on the draft M-24 list.
  - FH would like to meet with EPA to discuss the KW Groundwater Remediation work scope, including new wells.

100 UMM
Groundwater Operable Unit Status
February 9, 2006

**100-HR-3 Groundwater OU - Ron Jackson**

- Remediation Treatment Status
  - For the period January 1, - January 29, 2006:
    - Pump and treat system operated normally.
    - Total average flow through the system was approximately 200 gpm.
    - Average influent hexavalent chromium concentration for H Area (mixed of D and H water) was 0.117 mg/L. A sampling port was added in February to obtain concentrations of only H extraction water.
    - Average influent hexavalent chromium concentration for D Area was 0.152 mg/L.

- Monitoring well H4-14 was tied in as an injection well on February 10, 2006, and injection well H3-2A was converted to a monitoring well (quarterly samples).

- Overall cleanup of chromium in 100-H is progressing well. Only wells H4-12A, H4-15A, and H4-64 remain above the RAOs and trending downward. Expecting chromium concentrations in the wells to reach below 22 ppb in March 2006.
- Ecology observed Sampling Feb 13 @ H Area Extraction Wells
- DR-5 Treatment Status
  - For the period November 28, 2005-January 01, 2005:
    - System operated normally.
    - Total average flow was approximately 44 gpm.
    - The average influent hexavalent chromium concentration was 0.788 mg/L.

- Summary of ISRM Status
  - Collected and analyzed samples from the ISRM problem wells during the first week of January, 2005.
  - Ecology was briefed on January 25, 2006 on the ISRM Summary Report. January 23, 2006.

- D-Area Groundwater Plume Definition
  - Three wells are planned in FY06 to be drilled in the vicinity of the 190-DR clear wells to help define the up-gradient portion of the chromium groundwater plume. Meetings have been held between RL, Ecology, and WCH to coordinate the drilling schedule (and location) to the WCH's excavation schedule. These wells are identified on the draft M-24 list.

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 5**

Dean Strom- 100 BC Burial Grounds status and color coded map

Dean Strom 100-BC

*Attachment 5*

2/9/2006

Burial Grounds:

118-B-1:

Targeting LARADS areas for removal.
Working on a way to remove the compressed cylinders from the site.

118-C-1:

Excavating and loading out material. Approximately 45% complete.

118-B-6:

Close out sampling is complete.

Remaining Sites:

126-B-3: Removed a 1' lift. Found a french drain.
COPCs: SVOA, TPH, ICP Metals, Hg, Cr+6, PCBs, Pest, GEA, Gross alpha, Gross beta, VOA if OVM detection

128-B-3:

Re-veg for the slope near the river is planned for next week.

100-B-1: Re-veg in planned for next week.

RPAS:

100-C-9:1N Box Culvert:

Backfill underway.

100-C-7 Monolith:

Excavated over 300 BCM in hopes to remediate the stained area near the monolith. The plume is larger than expected. To be included with the 100-C-7 Chrome site scope.

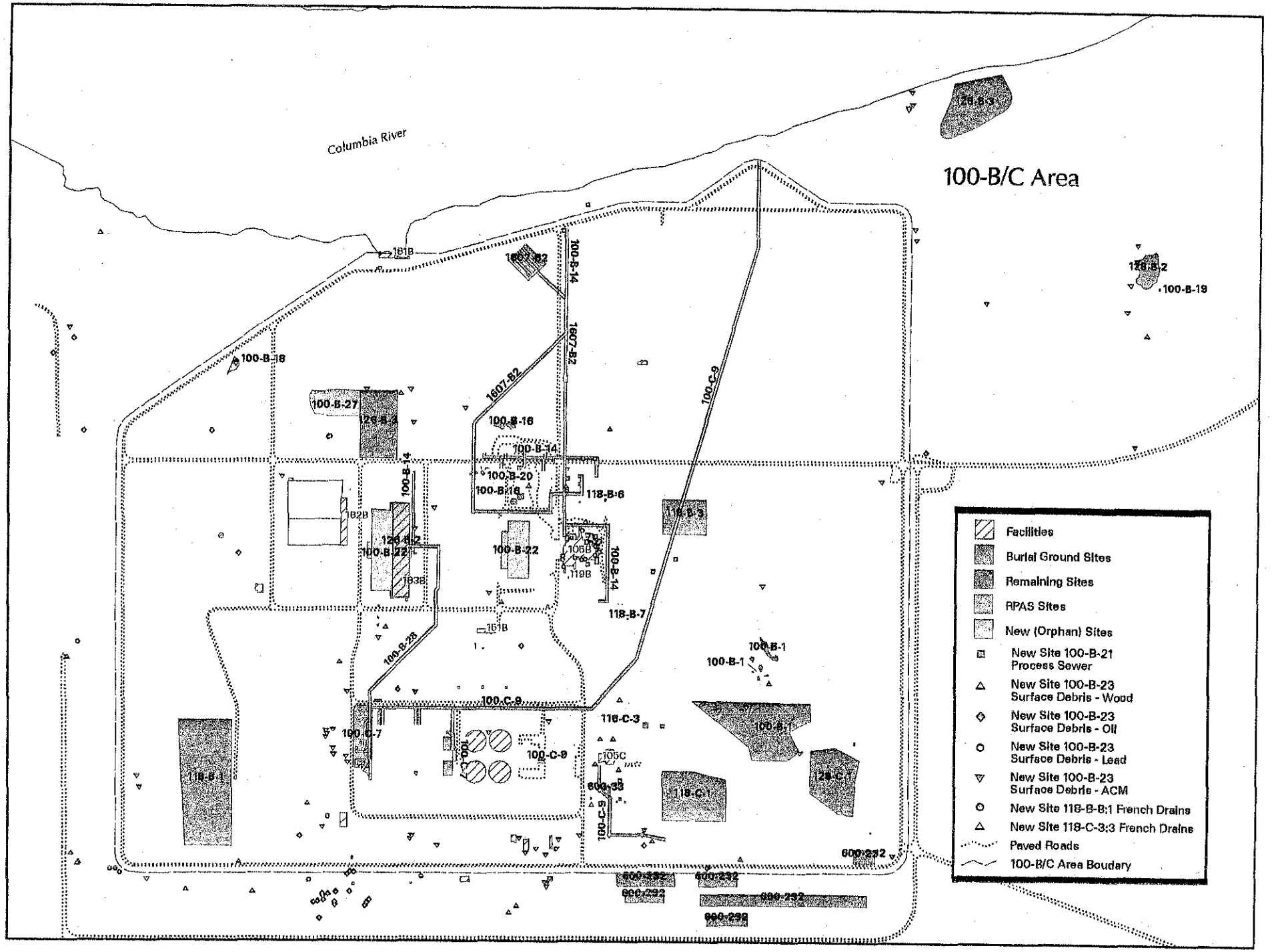
100-B-14

Approximately 95% complete with excavation.
Re-started excavation of site.

1607-B2:

On the schedule in the next few weeks to remove the remaining pipelines.

Miscellaneous:


100-B/C Area
Columbia River
Facilities
Burial Ground Sites
Remaining Sites
RPAS Sites
New (Orphan) Sites
New Site 100-B-21 Process Sewer
New Site 100-B-23 Surface Debris - Wood
New Site 100-B-23 Surface Debris - Oil
New Site 100-B-23 Surface Debris - Lead
New Site 100-B-23 Surface Debris - ACM
New Site 116-B-8:1 French Drains
New Site 118-C-3:3 French Drains
Paved Roads
100-B/C Area Boudary

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 6**

300 Area D & D Status

*Attachment 6*

300 Area D&D Status
February 9, 2006
300 Area Unit Manager Meeting

**Characterization/ Hazardous Material Removal**

- **333 -** Hazardous material removal began the last week in January 2006.
- **303-M** – Bag house filters will be removed at the beginning of demolition.
- **303-J** – Asbestos siding removed.
- **3707D** – Asbestos siding removed.

**Ready for Demolition**

- **303-M –** Demolition is expected to begin by mid-February. *Revised air emission estimates were provided to the EPA for review.*
- **303-F** – Demolition is expected to begin on February 13, 2006.
- **303-A**– Demolition is expected to begin by mid-February.
- **3715** – Demolition will begin this month.

**Demolition Ongoing**

- **3713/3722 –** Demolition began at the end of January 2006.
- **303-G**– Demolition began on February 9, 2006.

**Demolition Completed**

- **314** – Efforts are underway to fill the pits and stabilize the surrounding area. DOE and EPA agreed to defer removal of the 314/314B building foundation to the Field Remediation Project. The deferral approval is being provided for inclusion in the February 2006 UMM minutes.
- **334 Tank Farm** – Foundation and trenches have been removed.
- **3712 –** Demolition and waste load out were completed in January 2006.
- **311 Tank Farm –** Demolition and waste load out will be completed this week.

**324/327**

- Revision 0 of EE/CA #2 has been issued to DOE.
- The public comment period for EE/CA #2 is scheduled to begin in February 27, 2006 and continue through April 3, 2006.

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 7**

Deferring Building Foundation Removal of the 314 Engineering Development Laboratory and 314 Stress Rupture Test Facility to the Remediation Project

# DEFERRING BUILDING FOUNDATION REMOVAL OF THE 314 ENGINEERING DEVELOPMENT LABORATORY AND 314B STRESS RUPTURE TEST FACILITY TO THE FIELD REMEDIATION PROJECT

January 2006

## I. Introduction

Demolition of the above grade portions of the 314B Stress Rupture Test Facility and the 314 Engineering Development Laboratory were completed in September 2005 and December 2005, respectively. The above grade demolition material was removed and disposed at the Environmental Restoration Disposal Facility in accordance with *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005).

## II. Background

Both the *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005) and *Removal Action Work Plan #1 for 300 Area Facilities* (DOE/RL 2005a) allow for the facility slab or foundation to be deferred to a later date where facilities are located above or adjacent to known or suspected 300-FF-2 Operable Unit waste sites. Considerations for deferring below-grade structures and soils include: limiting infiltration into an underlying waste site during the period between demolition and remedial action; minimizing/reducing potential exposure to contaminants from an underlying waste site; avoiding double-handling and potential cross-contamination of clean backfill material that would be excavated as part of the remedial action; and avoiding disruption of 300 Area utilities that are supporting active facilities. The decision to defer at- or below-grade structures in place must be approved by the Environmental Protection Agency (EPA) and the Department of Energy (DOE) and will be documented in the 300 Area Unit Manager Meeting minutes.

## III. Discussion

The *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005) states the following:

*"On a case-by-case basis, the facility slab or foundation may be left in place where facilities are located above or adjacent to known or suspected 300-FF-2 OU waste sites. In these instances, clean fill/soil or other barrier may be placed over remaining contamination in accordance with an EPA-approved work plan."*

Waste Identification Database System (WIDS) sites 300-16, 300-24, and 300-80 document underground soil contamination located near the foundation of the 314 and 314B buildings. WIDS Site 300-218, the 314 and 314B Building foundation, is also being deferred due to the underground soil contamination. Additionally, the 300 Area Process Sewer System (300-15) intersects the building foundation.

## IV. Activities

The basement and pits will be backfilled and soil/cobble will be mounded to prevent water collection. Fall hazards, as defined by OSHA 1926.501(b)(1) (i.e., unprotected sides or edges of six feet or more), will be mitigated with backfill or a barrier. Facility specific perimeter monitoring will cease once the above identified activities have been completed.

The area will be posted with appropriate postings and the Waste Information Data System (WIDS) will be updated with available characterization data, including radiological survey of the concrete slab and GPS coordinates locating the of corners of the foundation.

## V. Conclusion

In accordance with the *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005), removal of the 314 and 314B Building foundations and remediation of potential soil contamination will be deferred to the Field Remediation Project. Appropriate measures have been placed on and around the 314 and 314B Building foundations to meet industrial safety standards.

## VI. References

EPA, 2005, *Action Memorandum #1 for the 300 Area Facilities*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.

DOE/RL, 2005a, *Removal Action Work Plan #1 for 300 Area Facilities*, U.S. Department of Energy, Richland Operations Office, Richland, Washington

**APPROVAL TO DEFER REMOVAL OF THE 314 AND 314B BUILDING FOUNDATIONS**

January 18, 2006

R. F. Guercia, Project Manager
U.S. Department of Energy, Richland Operations Office

Date

A. L. Boyd 01-18-2006

A. L. Boyd, Project Manager
United States Environmental Protection Agency

Date

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 8**

Engineering Design and Engineering Closure Summary for February UMM

# Engineering Design and Engineering Closure Summary for February Unit Manager Meeting

## Design:

For the 300 Area Supplemental Design package being performed this FY, the wastesites are 300-274, 300-275, 300-276, 600-243, 300-16, 300-80, 300-218, and 300-24.
The D Area Burial Ground and RTD Remaining Sites Design package went out for bid the week of January 30.

H Area design for Burial Grounds and RTD Remaining Sites was started early.

EPA approved the 116-C-3 Chemical Tanks Treatment Plan. The design has been completed and will be going out for bid in the near future.

The spent nuclear fuel strategy has changed with FH indicating they can't take our waste as it currently does not meet their AB documentation. We continue to work the issue. However, this could impact 100 B/C as they are nearing their A/B limits.

## Closure:

Confirmatory sampling of remaining sites in D Area was completed in January. Analytical data has been received for the majority of the sites, and is currently being evaluated to determine the path forward for each site. Failing sites will be forwarded to Design for inclusion in future change notices to an existing subcontractor, and closeout documentation will be generated for those sites that do not fail.

Confirmatory sampling work instructions are currently being generated for the 100-H Remaining Sites, and are being provided to RL and Ecology for review and approval. Confirmatory sampling at 100-H is not currently scheduled for FY06. Mud dauber contaminated areas are being reviewed for inclusion as an official WIDS site in the 100 H Area.

Ecology is reviewing the pipeline matrix calculation logic. This process has been used by EPA for B/C and F area pipelines. The approach includes the entire mass of piping when calculating compliance values for scale found in pipelines during confirmatory sampling.

Ecology has indicated that no more closure documents will be signed until Ecological Risk requests are satisfactorily addressed. This will continue to impact schedule as closure documents associated with sample results coming in from the D Area sampling campaign continue to be generated and provided to RL and Ecology for review and approval.

Initiated 105-H Reactor CVP to include 100-H-9 and 100-H-10 that were removed during the reactor ISS project.

Held D Area WCH field remediation and FH groundwater integration meeting with FH, Ecology, and RL.

Received and addressing EPA comments on 128-F-2 and 128-F-3 Burn Pit verification WI's.

Submitted 300-VTS CVP and 331-LSLDF WI for RL/EPA review. Received RL/EPA approval on the 600-259 Lysimeter Site CVP.

Plan to sample 300-7, 300-9 and 331-LSLDF in ~ 2 weeks

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

February 9, 2006

**ATTACHMENT 9**

100 Area Groundwater Summary by Bob Peterson

# 100 and 300 Area Combined UMM Agenda for February 9, 2006 Meeting

(Bob Peterson input, 373-9020)

## 100 AREA GROUNDWATER

### K-Basins

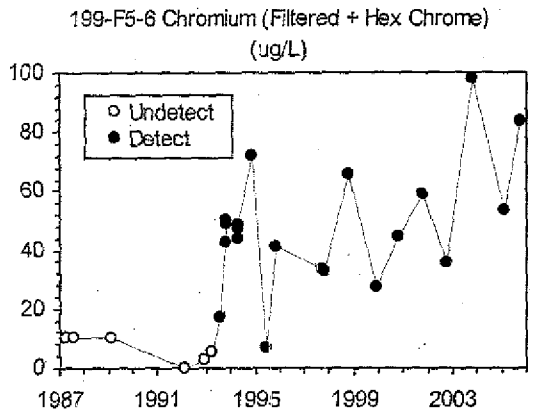
- Conditions consistent with previous trends and expectations.
- Most recent sampling event was completed February 1, 2006 (monthly sampling near KE Basin while sludge removal activities are underway).
- Most recent results available are for samples collected in October 2005 for routine schedule, and in December 2005for monthly sampling.
- Schedule for excavation and demolition of KE Basin has been extended into 2007, so time is available to plan for decommissioning existing wells and for installing replacement facilities for long-term monitoring.

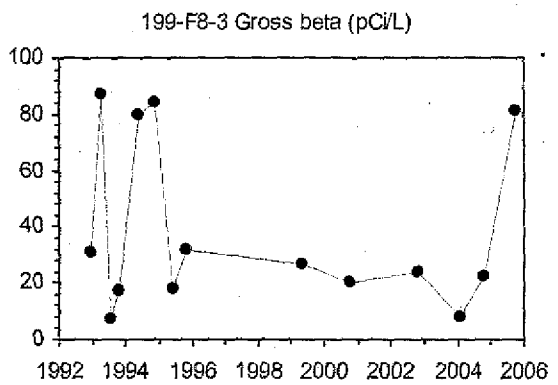
### 100-BC-5

- Eleven of seventeen wells were sampled in January; remainder planned for coming month. No data returned yet.
- Aquifer tubes are likely to be sampled during latter part of February (i.e., next on schedule following sampling along 100-K Area that is in progress.

### 100-FR-3

- Twentyone wells sampled in October 2005 as scheduled. This completes groundwater sampling scheduled for fiscal year 2006.
- Most aquifer tube sites sampled in November 2005 and January 2006. Remaining four sites will be sampled in late February.
- Recent 100-F groundwater results are generally consistent with previously observed trends.
- The chromium concentration in well 199-F5-6 increased to 83 ug/L in October 2005 (figure below). Concentrations have been variable in this well in recent years, but increasing overall since the mid 1990s. *Action: Continue annual sampling.*
- Gross beta increased to 81 pCi/L in well 199-F8-3, located in the southwest 100-F Area adjacent to the 118-F-6 burial ground (figure below). The only known beta emitter in the 100-F Area is strontium-90 near the retention basins (east of this well), but the well was not scheduled for strontium-90 analysis. High gross beta values also were observed in this well in the early 1980s. Strontium-90 and technetium-99 at that time were undetectable, so the cause of the beta spikes is unknown. Tritium increased slightly, to 19,800 pCi/L. *Action: We will resample the well (scheduled for February) and look for specific beta emitters.*




## 300 AREA GROUNDWATER

- Operations and Maintenance Requirements
  - Some results for December 2005 sampling are now available and are consistent with previous trends and expectations.
  - Aquifer tubes were sampled on January 24, 2006 as part of more frequent monitoring along the shoreline. Results for those samples are expected in early March.
  - Draft revised sampling and analysis plan for the 300-FF-5 Operable Unit; awaiting comments from reviews.
- Phase III Feasibility Study and Limited Field Investigation
  - Drilling of characterization boreholes is expected to begin in mid-February 2006, followed by the direct-push task.
  - (no further news on this one!) Proposal to perform a uranium treatability test involving injection of polyphosphate has been prepared. Treatability testing would run concurrently with limited field investigation.

## RIVER CORRIDOR SHORELINE MONITORING

- Aquifer Tubes
  - Completed sampling at 100-D, 100-H, and 300 Area
  - Several sites remaining at 100-F
  - Current field activities at 100-K
  - Subsequent: 100-B, and remaining sites missed earlier
- Riverbank Springs
  - No activity.
  -